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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
10/052,838	01/17/2002	Jun Ishii	393032030500	1876		
25224	7590 01/31/2006		EXAM	EXAMINER		
MORRISON & FOERSTER, LLP 555 WEST FIFTH STREET			FLETCHER, MARLON T			
SUITE 3500			ART UNIT	PAPER NUMBER		
LOS ANGEI	LES, CA 90013-1024		2837			
			DATE MAILED: 01/31/2006	DATE MAILED: 01/31/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Applicat	Application No. Applicant(s)						
	10/052,8	338	ISHII ET AL.					
Office Action Summary		er	Art Unit					
	Marlon T	. Fletcher	2837					
The MAILING DATE of this commun Period for Reply	ication appears on th	e cover sheet with the c	correspondence a	ddress				
A SHORTENED STATUTORY PERIOD F WHICHEVER IS LONGER, FROM THE M - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comn - If NO period for reply is specified above, the maximum st - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).	1AILING DATE OF T of 37 CFR 1.136(a). In no e nunication. atutory period will apply and v will, by statute, cause the ap	HIS COMMUNICATION I went, however, may a reply be tin will expire SIX (6) MONTHS from uplication to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	,				
Status								
1) Responsive to communication(s) file	ad on 01 July 2005							
		non-final						
=								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
·	9 40 44 and 46 49 a	lara mandina in the ann	liandian /	•				
	Claim(s) 1,2,4-12,14-18,20-34,36-38,40-44 and 46-48 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) 7,23 and 39 is/are allowed.								
_	_							
7) Claim(s) is/are objected to.	Claim(s) <u>1,2,4-6,8-12,14-18,20-22,24-28,30-34,36-38,40-44 and 46-48</u> is/are rejected.							
8) Claim(s) are subject to restrict	ation and/or alastian	ro autiromo ant						
o) Claim(s) are subject to restrict	,tion and/or election	requirement.						
Application Papers								
9) The specification is objected to by the	e Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including	the correction is requi	red if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).				
11)☐ The oath or declaration is objected to	by the Examiner. N	ote the attached Office	Action or form P	TO-152.				
Priority under 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim a)⊠ All b)□ Some * c)□ None of:	for foreign priority ur	nder 35 U.S.C. § 119(a))-(d) or (f).					
 1.	documents have been	en received.						
2. Certified copies of the priority	documents have been	en received in Applicati	on No					
3. Copies of the certified copies	of the priority docum	ents have been receive	ed in this National	Stage				
application from the Internatio	nal Bureau (PCT Ru	le 17.2(a)).						
* See the attached detailed Office actio	n for a list of the cert	ified copies not receive	ed.					
Attachment(s)								
1) Notice of References Cited (PTO-892)		4) Interview Summary						
 2) Notice of Draftsperson's Patent Drawing Review (PB) Information Disclosure Statement(s) (PTO-1449 or 		Paper No(s)/Mail Da 5) Notice of Informal P		O-152)				
Paper No(s)/Mail Date	. 10/30/00)	6) Other:		,				

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DETAILED ACTION

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

The second action final was not necessitated by the amendment to the claims and therefore, should have been indicated as a non-final office action. The second action is repeated herewith, as a non-final rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-6, 8-12, 14-18, 20-22, 2-28, 30-34, 36-38, 40-44, and 46-48, are rejected under 35 U.S.C. 103(a) as being unpatentable over Yun (5,298,674) in view of Choi et al. (5,726,373).

Yun discloses a discriminator (figure 2) for discriminating a sort of modulation technique to produce an information carrying signal comprising: an analyzer supplied with said information carrying signal, and evaluating at least one feature of said information carrying signal found in a waveform of said information carrying signal (column 4, lines 8-18)., and a judging unit connected to said analyzer, and investigating the evaluation supplied from said analyzer to see what sod of modulation technique is to exhibit said at least one feature so as to determine the sort of modulation technique

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employed in said information carrying signal (column 4, lines 18-23). Yun discloses the discriminator in which said analyzer further evaluates another feature of said information carrying signal found in said waveform of said information carrying signal, and said judging unit determines said sort of modulation technique on the basis of the evaluation to said at least one feature and said another feature (column 4, lines 24-33). Yun discloses the discriminator, in which said at least one feature is a similarity of said waveform to plural reference waveforms (column 4, lines 24-26). Yun discloses the discriminator, in which said at least one feature and said another feature are a similarity of waveform to plural reference waveforms and peak-to-peak intervals found in said waveform (column 4, lines 24-26 and lines 64-65). Yun discloses the discriminator, in which said analyzer includes a wave discriminator comparing said waveform with a predetermined amplitude range to see whether or not said information carrying signal is fallen within said predetermined amplitude range so as to determine a first time period in which said information carrying signal is within said predetermined amplitude range and a second time period in which said information carrying signal is out of said predetermined amplitude range, and determine said similarity on the basis of a ratio between said first time period and said second time period (column 5. lines 28-48). Yun discloses the discriminator, in which said wave discriminator includes a rectifier supplied with said information carrying signal and making said information carrying signal vary the amplitude in one of the positive and negative ranges, an averaging circuit connected to said rectifier for determining an average value of said amplitude, a comparator having two thresholds defining said predetermined amplitude

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range and comparing said information carrying signal with said two thresholds to produce an output signal representative of said first time period and said second time period, and a signal generator connected to said comparator and producing an output signal representative of said similarity (column 5, line 49 through column 6, line 27). Yun discloses the discriminator, in which said analyzer includes a wave discriminator supplied with said information carrying signal, comparing said waveform with a predetermined amplitude range to see whether pr not said information carrying signal is fallen within said predetermined amplitude range so as to determine a first time period in which said information carrying signal is within said predetermined amplitude range and a second time period in which said information carrying signal is out of said predetermined amplitude range, and determine said similarity on the basis of a ratio between said first time period and said second time period', and plural modulation discriminators supplied with said information carrying signal, determining said peak-topeak intervals of said information carrying signal, and producing output signals each representative of either consistency or inconsistency with one of plural sorts of modulation techniques, said output signal of said wave discriminator and said output signals of said plural modulation discriminators being supplied to said judging unit (column 5, line 64 through column 6, line 44).

Yun discloses the discriminator in which said information carrying signal is produced from an analog signal representative of sound said judging unit further determines that said information carrying signal was produced from said analog signal in the absence of the features unique to plural sorts of modulation techniques (column

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1, lines 12-19 and claim 4). Yun does not disclose at least one feature is a similarity of the waveform to plural reference waveforms nor does Yun disclose the use of music data codes.

However, Choi et al. disclose a discriminating for discriminating a sort of modulation technique to produce an information carrying signal, wherein a judging determines a modulation technique, wherein at least one feature is a similarity of the waveform to plural reference waveforms as discussed in column 16, line 30 through column 17, line 55. Choi et al. further disclose the discriminator in which said information carrying signal is produced from a data stream containing music data codes and meaningless codes (figures 1-1 1).

It would have been obvious to one of ordinary skill in the ad at the time of the invention to utilize the teachings of Choi et al. with the apparatus of Yun, because Choi et al. enhances the teachings of Yun, by providing the transmission of MIDI or meta data, wherein codes can be used to reproduce the musical transmission and further comprise a comparison or judging of the waveform against reference waveforms for making a determination of the modulation technique.

Allowable Subject Matter

4. Claims 7, 23, and 39, are allowed.

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Response to Arguments

5. Applicant's arguments with respect to claims 1-48 have been considered but are moot in view of the new ground(s) of rejection.

The applicant's arguments have been considered. Because of the English

Translation provided, the reference of Ishii has been removed from the rejection. The

examiner also agrees with the applicant's evaluation of the premature final rejection.

Allowable subject matter has been indicated above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marlon T. Fletcher whose telephone number is 571-272-2063. The examiner can normally be reached on M-w, F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on 571-272-2107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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MTF

January 27, 2006